

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

**LEARN** 



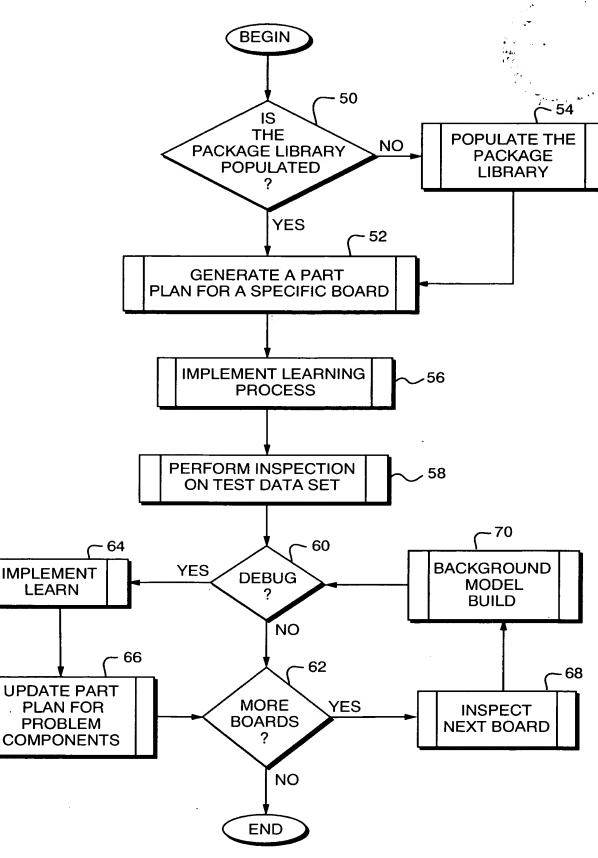


FIG. 2

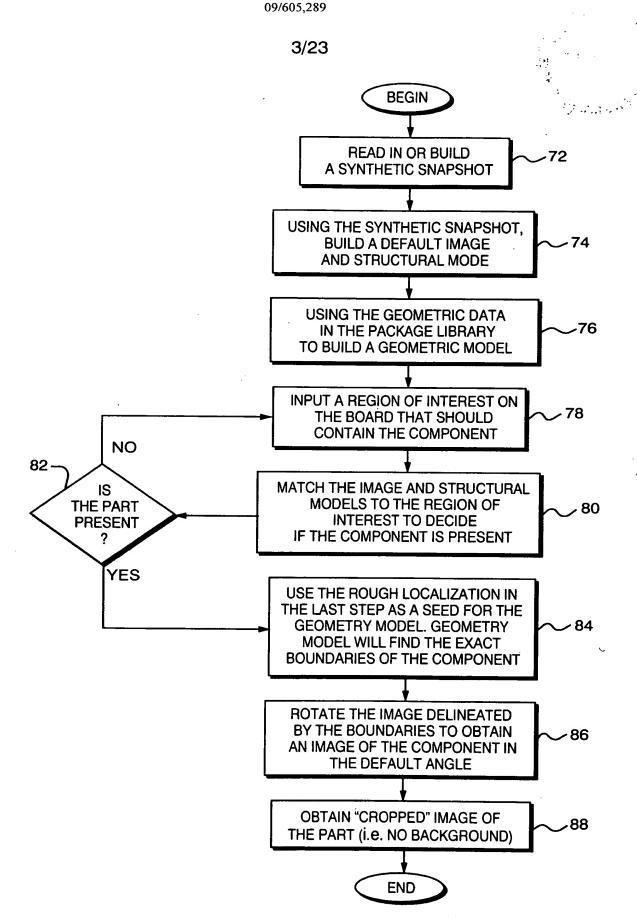
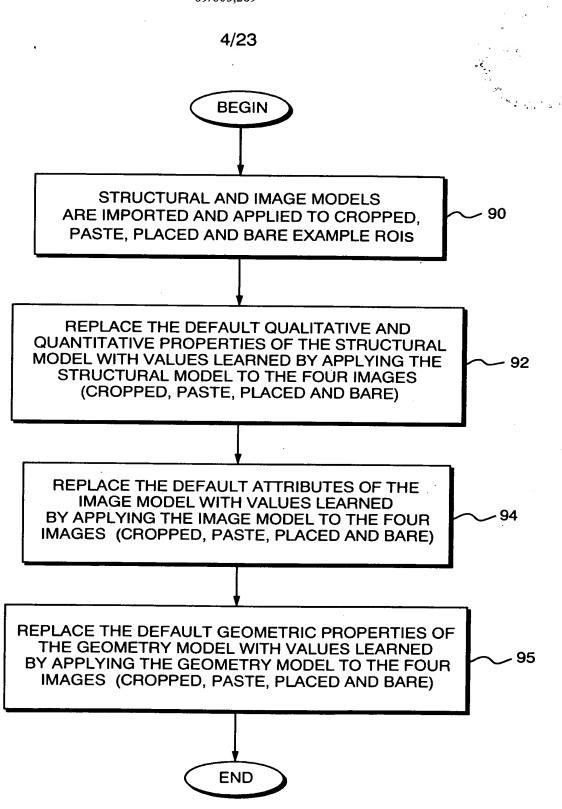


FIG. 3A

APPROVED	O.G. FIG.		
BY	CLASS	SUBCLASS	
DRAFTSMAN			



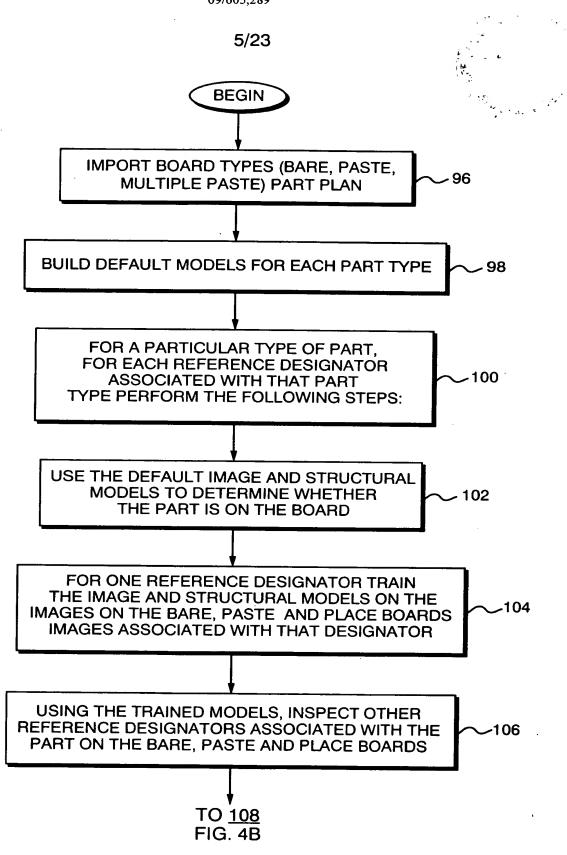


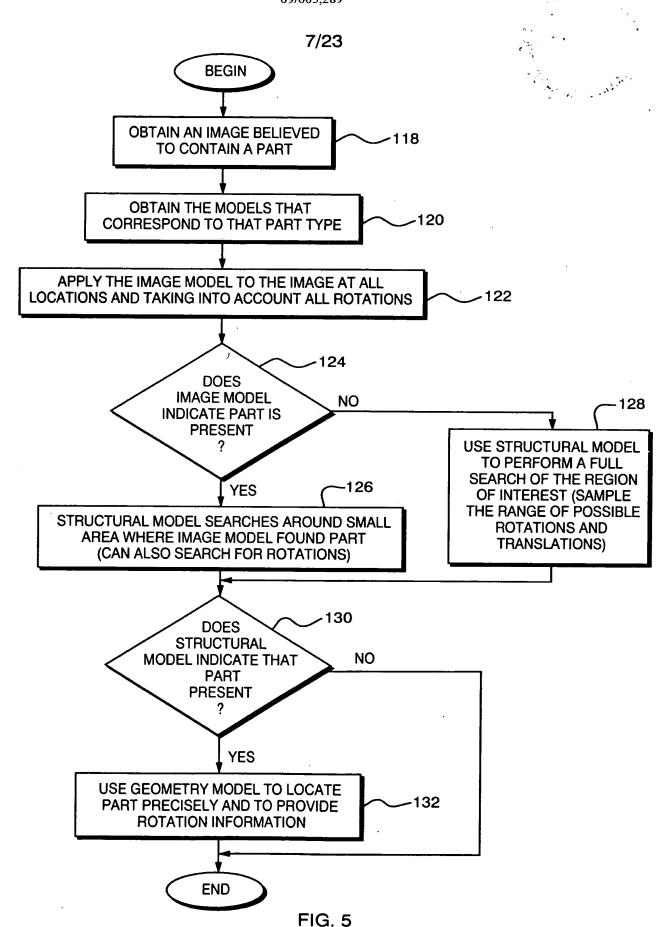
FIG. 4A

APPROVED O.G. FIG. IMAGE PROCESSING SYSTEM FOR USE WITH INSPECTION SYSTEMS CLASS SUBCLASS BY Pamela R. Lipson, et al. DRAFTSMAN 09/605,289 6/23 **FROM 106** FIG. 4A DETERMINE HOW WELL THE TRAINED MODELS CAN DISCRIMINATE BETWEEN TRUE POSITIVES (PART IS - 108 PRESENT) AND TRUE NEGATIVES (PART IS ABSENT) OVER ALL REFERENCE DESIGNATORS, CHOOSE THE ONE SET THAT GIVES THE -110 MODELS THE BEST DISCRIMINATION ABILITY IF NO ONE SET OF IMAGES/TRAINED MODELS GIVES GOOD DISCRIMINATION ABILITY USE A CLUSTERING ALGORITHM ON THE MODEL - 112 **OUTPUT SCORES OVER TRAINED MODELS ON ALL** REFERENCE DESIGNATORS TO DETERMINE HOW MANY EXAMPLES ARE NEEDED CHOOSE THE "N" SETS OF REFERENCE DESIGNATOR EXAMPLES WHERE 114 N IS THE NUMBER CALCULATED BY THE CLUSTERING ALGORITHM CREATE, TRAIN AND SAVE IMAGE AND STRUCTURAL MODELS FOR EACH "CANONICAL" REFERENCE DESIGNATOR SET **~116** EXAMPLE FOUND IN THE STEP OF CHOOSING THE BEST N REFERENCE DESIGNATOR EXAMPLES

FIG. 4B

**END** 

APPROVED	O.G. FIG.	
. BY	CLASS	SUBCLASS
DRAFTSMAN		



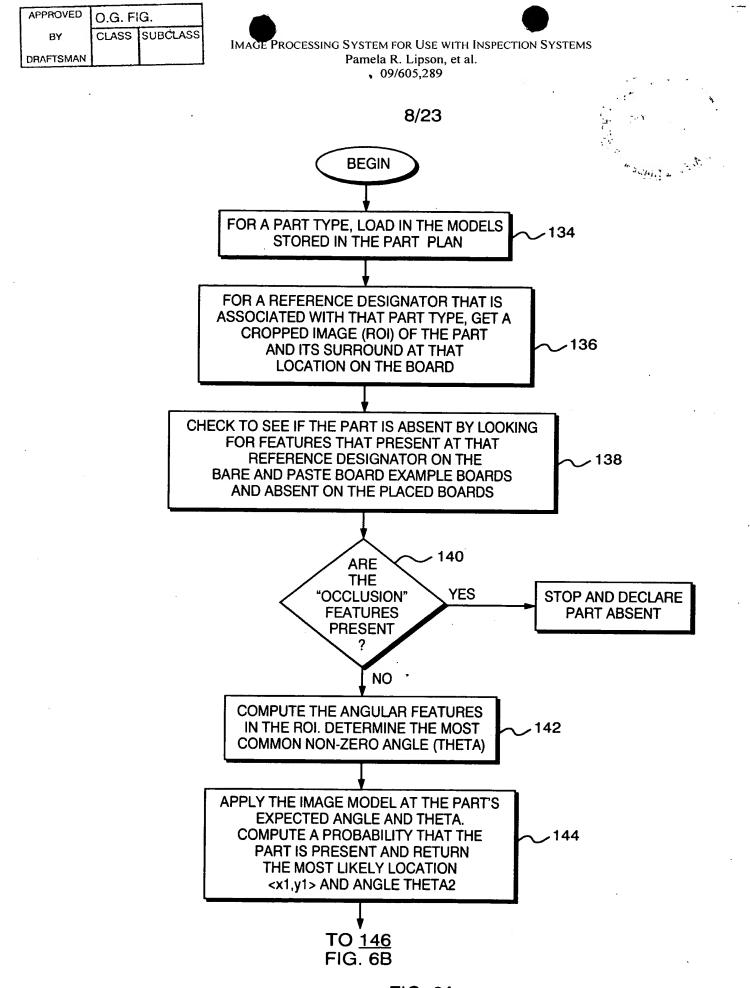


FIG. 6A

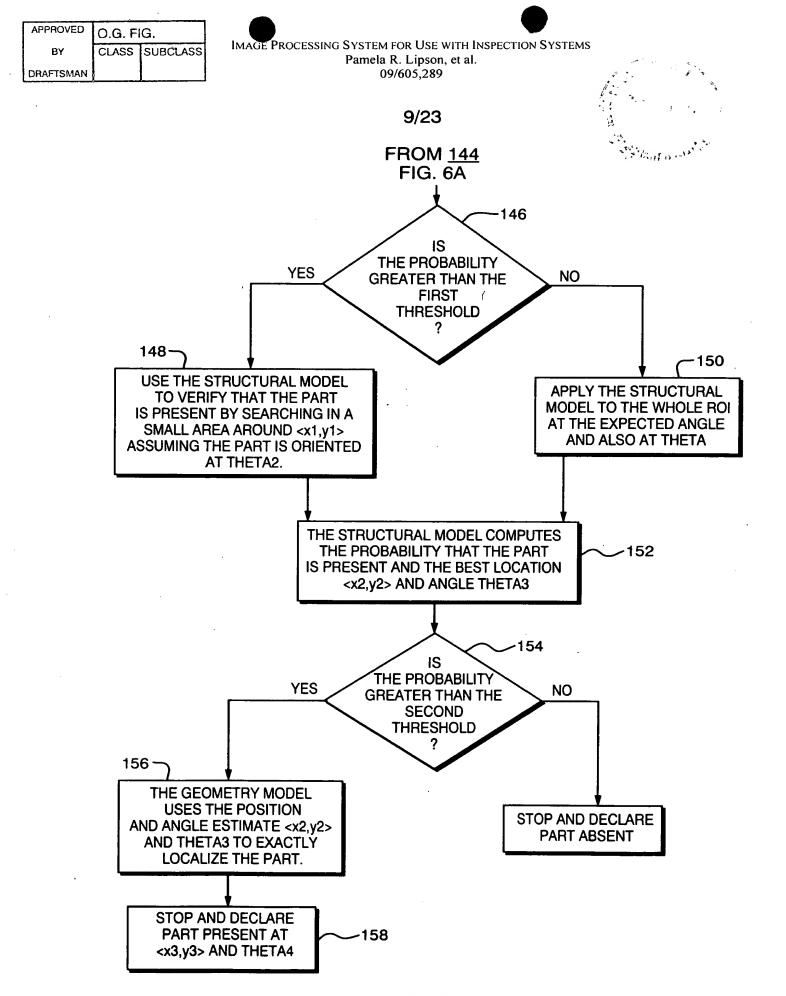
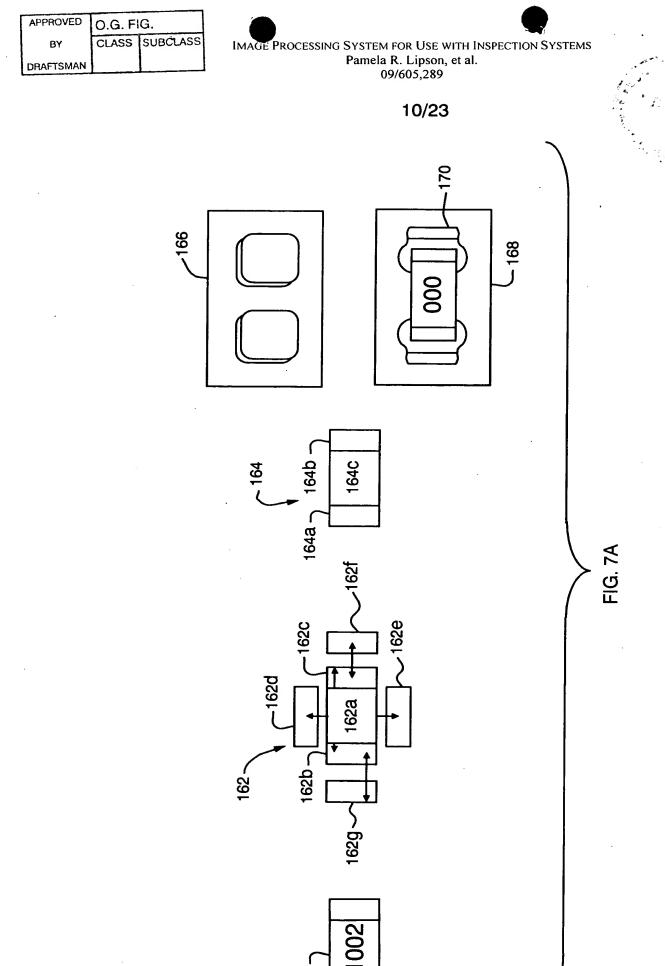
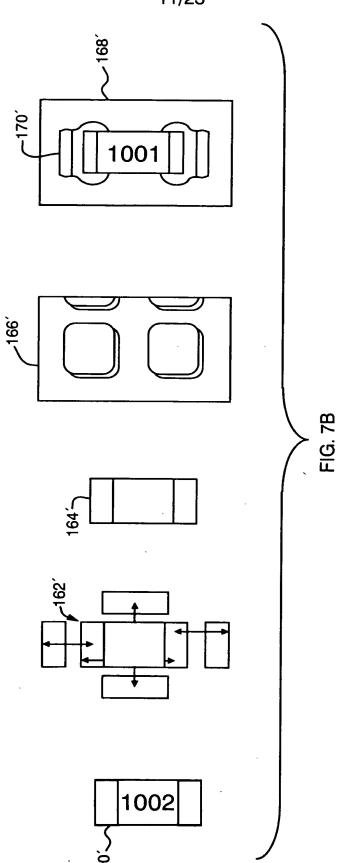


FIG. 6B

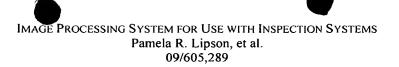


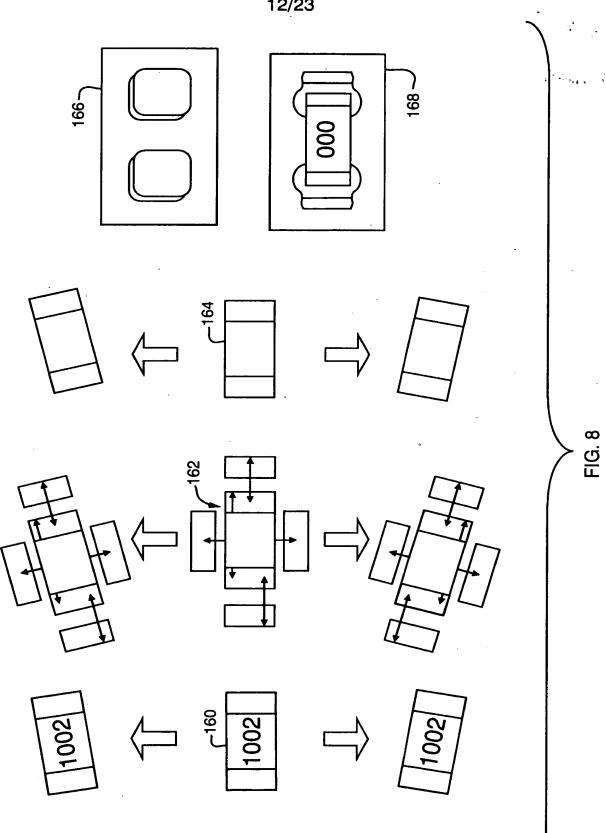
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN	1	

11/23



APPROVED	O.G. FIG.		
BY	CLASS	SUBCLASS	
DRAFTSMAN			





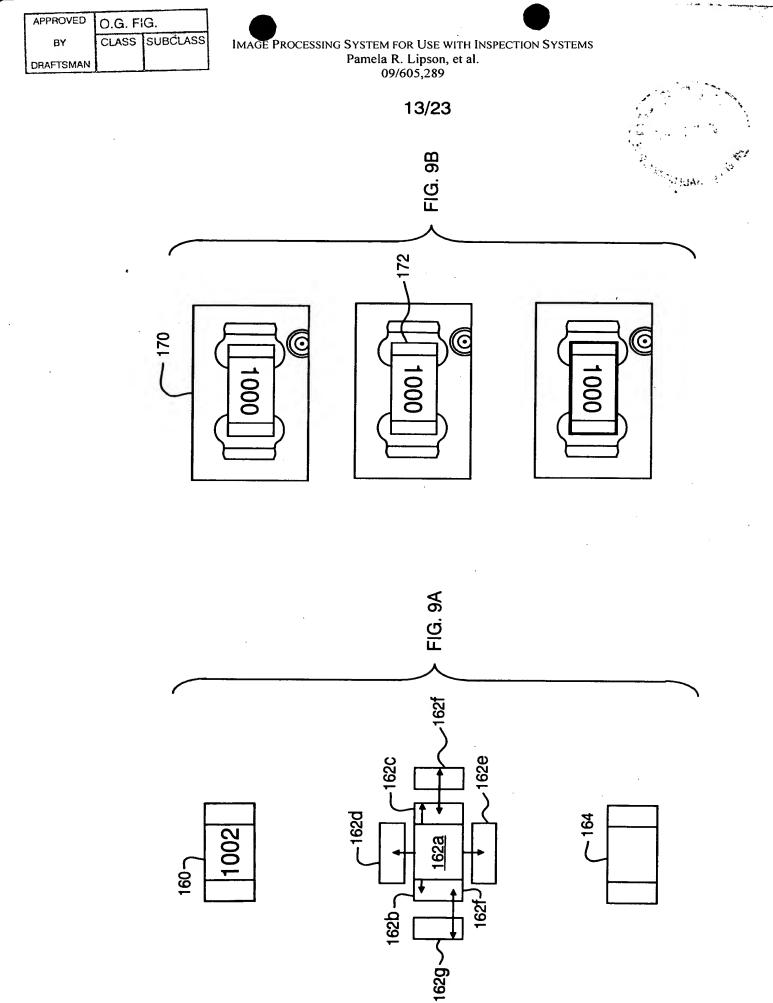
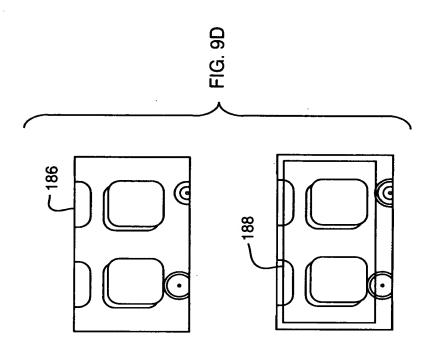
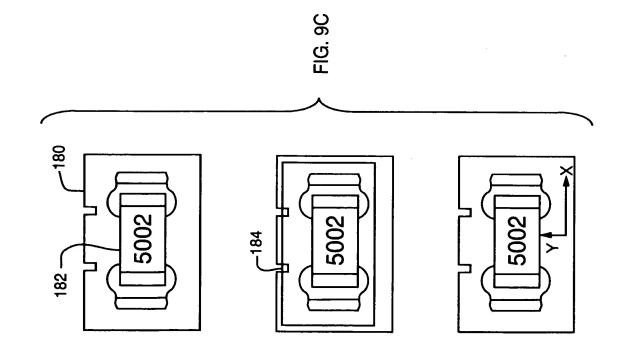
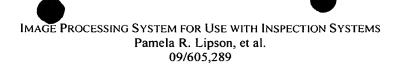


IMAGE PROCESSING SYSTEM FOR USE WITH INSPECTION SYSTEMS
Pamela R. Lipson, et al.
09/605,289

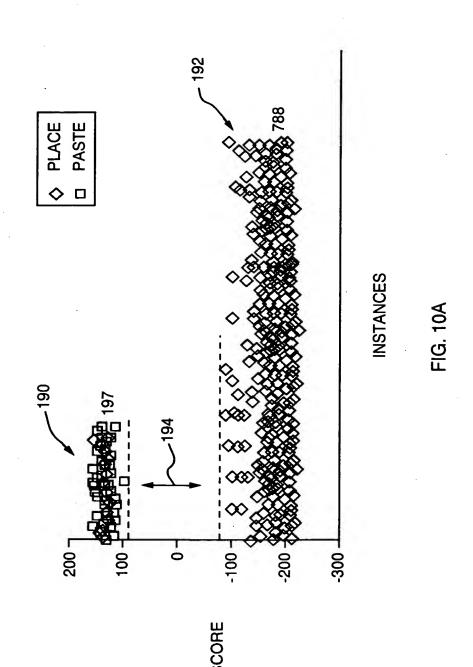




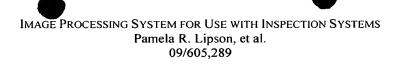
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN	1	





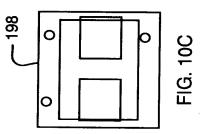


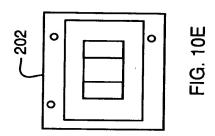
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

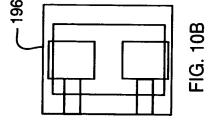


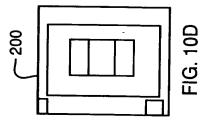
16/23





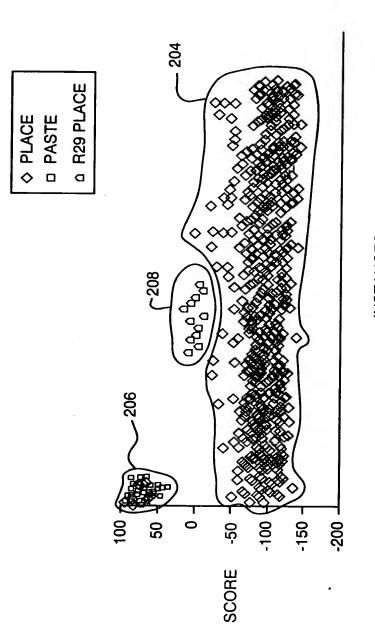






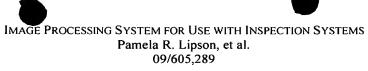
APPROVED	U, U.		
BY	CLASS	SUBCLASS	
DRAFTSMAN			

17/23

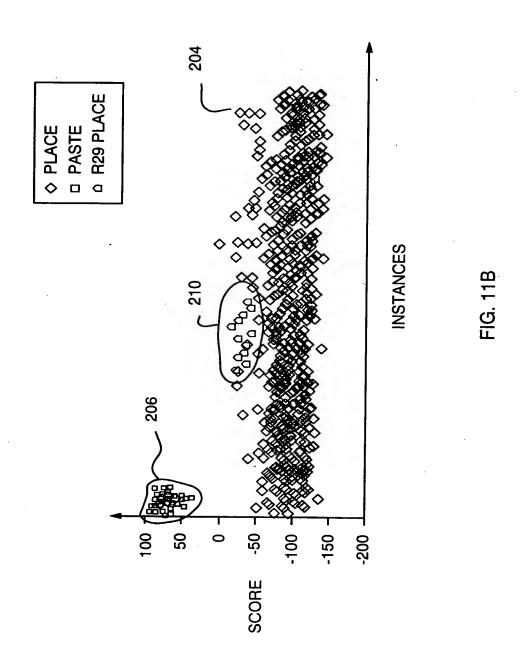


INSTANCES

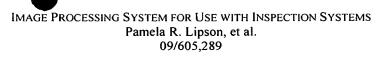
FIG. 11A



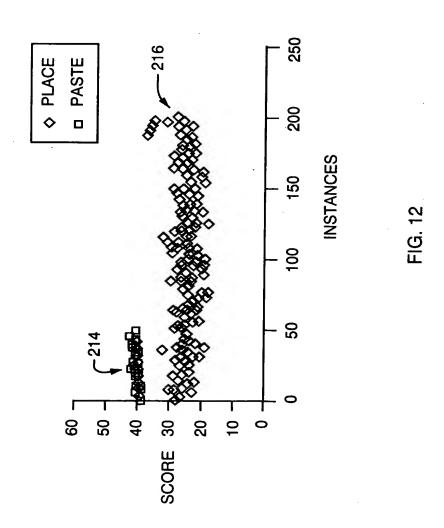




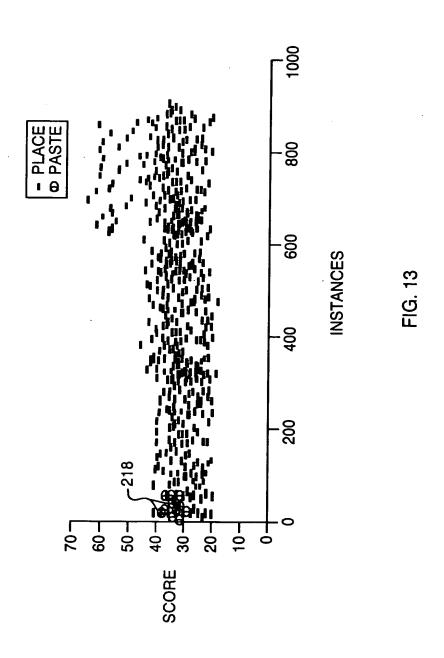
APPROVED		
BY	CLASS	SUBCLASS
DRAFTSMAN		







APPROVED		
BY	CLASS	SUBCLASS
DRAFTSMAN		



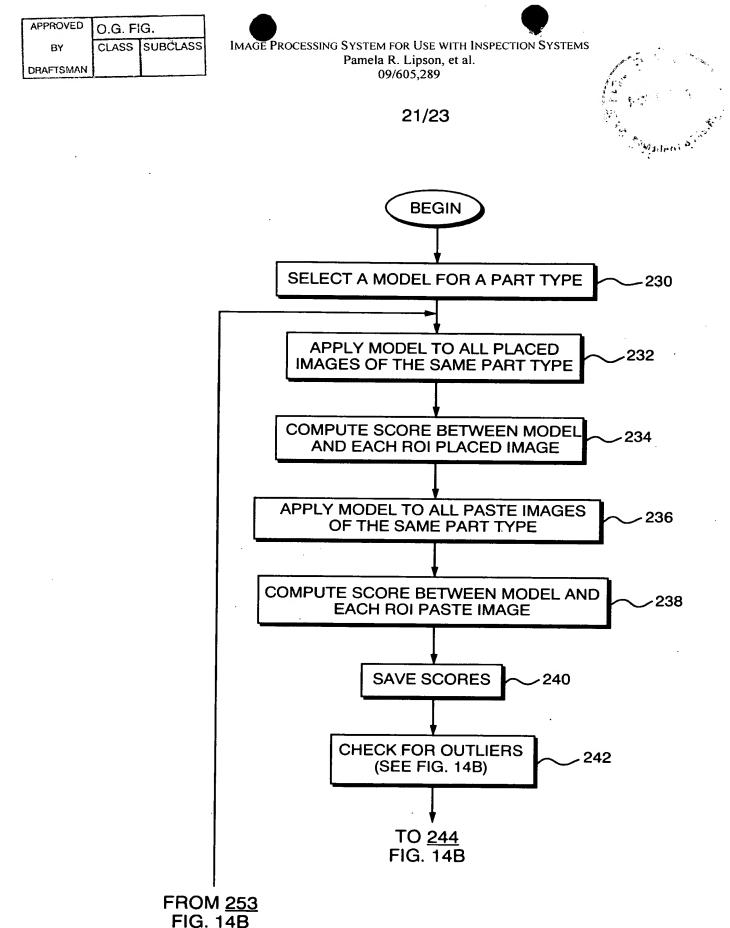
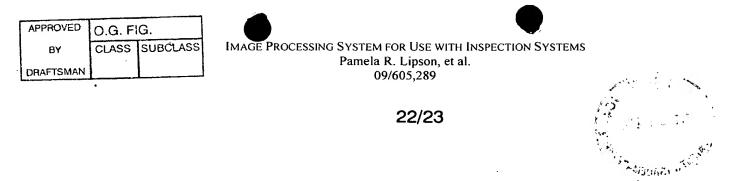


FIG. 14A



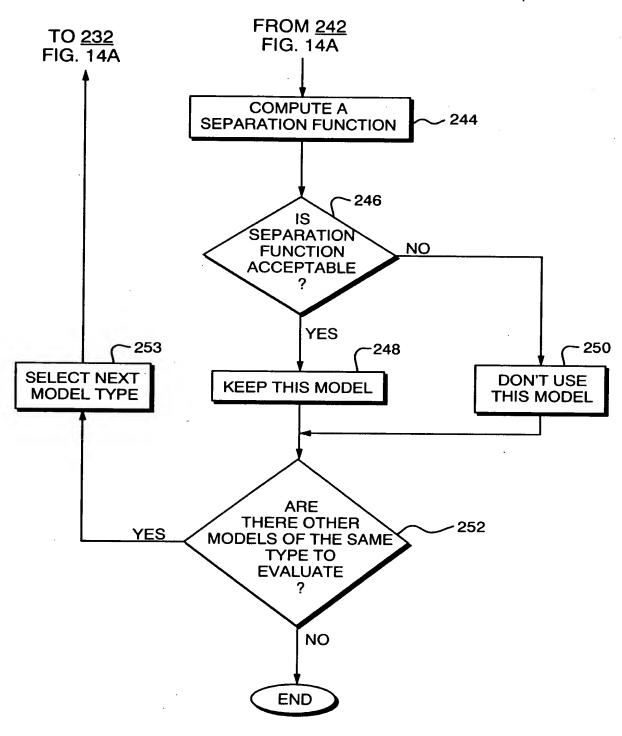


FIG. 14B

APPROVED			
ву	CLASS	SUBČLASS	
DRAFTSMAN			

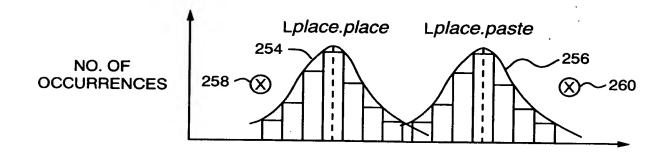


FIG. 14C